

ABSTRACT

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- 2 A method for achieving high bit densities in a direct-sequence CDMA spread
3 spectrum communication system. A table of orthogonal pseudo-noise codes is stored. This
4 table is then partitioned into multiple codebook. Then, the codebook is assigned to a user. The
5 pseudo-noise code contained within the codebooks are used to spread information signal.
6 Information signal for a first user is spread by a pseudo-noise code contained within the
7 codebook assigned to the first user. Multiple bits of information signal may be sent at a time
8 by using the location of the pseudo-noise code within the codebook such that the value of the
9 information signal corresponds the location of the pseudo-noise code within the codebook.
10 The information signal is then despread by using the same pseudo-noise code.
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